

## SEQUENCE LISTING

<110> Korea Research Institute of Bioscience and Biotechnology

<120> Multiple stress-inducible peroxidase promoter derived from  
Ipomoea batatas

<130> 4fpo-02-03

<160> 30

<170> KopatentIn 1.71

<210> 1

<211> 1512

<212> DNA

<213> Ipomoea batatas

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aagtggctgc tagacaacac tctagagtcg tcagtggccg acgtgctctc actaogccta 180

ggcatctcct cgggcaagct ttccgacgaa gactgcatat tctccgccgt taaggaagtg 240

gtggacgccg ccattgatgc agaaaccgc atgggtgctt ccctcattcg cctcttcttc 300

catgactgct ttgttgatgt acgtacgcta attttgtacg atgatgtttt tttttttttt 360

tttttttttc ccactgcatt atattaggaa attaaacaga ttgaaatgtg tgttattaat 420

gtattatctg cagggttggt acgcaggctt tctactaaac gatacaccta ctttcaccgg 480

agaacagacc gccggcggca ataataactc agtcagaggt ttgaggtga tacaacaagc 540

taaagagaat gtgataacca aatgtcccta catacaagta tcttgtgccg acatcttatc 600

cattgctgcc cgtgattctt tccagagagt aagtccattt atttctaaag gttgaaatta 660

ataagaacaa gaatccaaac aaataacaga cagtaaaaaa aaaagattta tgtgggttga 720

caatatgttg aaattgtttt tatatttaat gactagtatt tatgcattat atttatatgc 780

aactctaaac atgcagttta ctggagaaac gtacaccgtg actctgggaa gactcgatgc 840

aagaacggcg aaccttaccg gagctaacac ccaactcgtc ggaccaaacg aggaattggc 900

atcgcaagtc gagaaatttg cggcgaaagg gttctccgaa acggagctag tcgccttggt 960

aggtgttcac acggttggtt ttccgagatg tccgctttta tgcgttccca ttttcatcaa 1020

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 gtctgtgatt ctgtgaaagt tttactcgga ctgtgaagaa ttttcacttt ctgttgtttc 1440  
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 ataaatttgt ta 1512

<210> 2  
 <211> 110  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(110)  
 <223> -110 deletion promoter

<400> 2  
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 tcgaccactc atttcttctt catacttcct ttgctgtgat aatcatcatc 110

<210> 3  
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 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(177)  
 <223> -177 deletion promoter

<400> 3  
 aaattaaatc tcagtttgcg ttattatatt attatcaaca ataataattt aatactgacg 60  
 gaagaacttt ccctttcaag ttctctatct aaggaagcct gagaagccat taatcctcat 120  
 catcagctcg accactcatt tcttcttcat acttcctttg ctgtgataat catcatc 177

<210> 4  
 <211> 306  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter

<222> (1)..(306)  
 <223> -306 deletion promoter

<400> 4  
 taagggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaaaaca 60  
 aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 120  
 aattagaaca aattaaatct cagtttgctt tattatatta ttatcaaca taataattta 180  
 atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt 240  
 aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc 300  
 atcatc 306

<210> 5  
 <211> 366  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(366)  
 <223> -366 deletion promoter

<400> 5  
 tagtataatg aaataaagtt aatcattctc tatatttgat gatggtaatt agtatcatgg 60  
 taagggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaaaaca 120  
 aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca 180  
 aattagaaca aattaaatct cagtttgctt tattatatta ttatcaaca taataattta 240  
 atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt 300  
 aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc 360  
 atcatc 366

<210> 6  
 <211> 433  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(433)  
 <223> -433 deletion promoter

<400> 6  
 atgggtgactt aaagggctga atccaacata tattotgaca tttaaaaatg ctaacgtacg 60

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gtagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt 120
atcatggtaa ggtgttttat cgtggcagca tgagtgcacg acaaacgcac atattattat 180
taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa 240
aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa 300
taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga 360
agccattaat cctcatcatc agctcgacca ctcatctctt cttcataact cctttgctgt 420
gataatcatc atc 433

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<210> 7
<211> 818
<212> DNA
<213> Ipomoea batatas

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<220>
<221> promoter
<222> (1)..(818)
<223> -818 deletion promoter

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<400> 7
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tctcgagtgg aacaaaaata gaactaattt gaacaaatca aagtctaaga aaataataca 180
tgcttttagca gcaaaaataa gaatggtagt atacttaatc ctcatcatag tcttcaaccc 240
tgcatatagc acacttaaca ttttatattc aaatataact taatttagtc atgataatac 300
aactcaccta ctccattata gccgataata caactcacct agctactcca ttatagtcca 360
acaatatcaa atgaataaaa tagtaatggt gacttaaagg gctgaatcca acatatattc 420
tgacatttaa aaatgctaac gtacggttag attagtataa tgaaataaag ttaatcatc 480
tctatatttg atgatggtaa ttagtatcat ggtaagggtg tttatcgtgg cagcatgagt 540
gcatgacaaa cgcataatatt attattaaaa caaaatagta ctccaatcat aataaattat 600
cttatattat attgccaca attaaaaatt caaattagaa caaattaaat ctgagtttgc 660
tttattatat tattatcaac aataataatt taatactgat cgaagaactt tccctttcaa 720
gttctctatt taaggaagcc tgagaagcca ttaatcctca tcatcagctc gaccactcat 780
ttcttcttca tacttccttt gctgtgataa tcatcatc 818

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<210> 8

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<211> 1199  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(1199)  
 <223> -1199 deletion promoter

<400> 8  
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 catttaatta aattttctatc ctcatgttga acccataat cgaataattg acatattaga 180  
 taaacttagc catcatatga catttgatca tgattgatga tttttaaaaa ataaaaacaa 240  
 aattatgaaa gggtaatgaa atatttttaa aaaattatgt aaaccctgta atctagtaat 300  
 ctgtacaata ataattttgt ttcaactaag aggatgttgg caaaagtata attaaacttg 360  
 tgatcttcgt acaataatta tgcttcacgc actcaactag tcacatcttt ccaggcaaaa 420  
 tttacttttc tatgaatatg agaagttcca tctatggaaa taacggatta tttatctaata 480  
 tttcaaattc tatatatata gtctcgagtg gaacaaaaat agaactaatt tgaacaaatc 540  
 aaagtctaag aaaataatac atgcttttagc agcaaaaata agaatgggtac tataacttaat 600  
 cctcatcata gtcttcaacc ctgcatatag cacacttaac attttatatt caaatatact 660  
 ttaatttagt catgataata caactcacct actccattat agccgataat acaactcacc 720  
 tagctactcc attatagtcc aacaatatca aatgaataaa atagtaatgg tgacttaag 780  
 ggctgaatcc aacatatatt ctgacattta aaaatgctaa cgtacgggta gattagtata 840  
 atgaaataaa gttaatcatt ctctatatatt gatgatggta attagtatca tggtaagggtg 900  
 ttttatcgtg gcagcatgag tgcatgacaa acgcatatat tattattaaa acaaaatagt 960  
 actccaatca taataaatta tcttatatta tattgccaac aattaaaaat tcaaattaga 1020  
 acaaattaaa tctcagtttg ctttattata ttattatcaa caataataat ttaatactga 1080  
 tcgaagaact ttccctttca agttctctat ttaaggaagc ctgagaagcc attaatcctc 1140  
 atcatcagct cgaccactca tttcttcttc atacttcctt tgctgtgata atcatcatc 1199

<210> 9  
 <211> 1467  
 <212> DNA  
 <213> Ipomoea batatas

<220>

<221> promoter  
 <222> (1)..(1467)  
 <223> -1467 deletion promoter

<400> 9  
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 ataaaaata ttgggtcaaa ataccttacc gatttttccc aaatattcac ggaacttact 180  
 gccagaatct accctgcttt ttccctttcac tattttcaca actataagca tatatgggca 240  
 taaatatgac atgaacatgc atgaaccaat gcagggtgaa agtaagattg aatatactga 300  
 tactacaatt aactaatgat aaagtataac ttttgtaaaa aatttgattt ttttttttga 360  
 tgaattcata tactccaaag attttcctca ttttaattaaa tttctatcct catgttgaac 420  
 ccattaatcg aataattgac atattagata aacttagcca tcatatgaca tttgatcatg 480  
 attgatgatt tttaaaaaat aaaaacaaaa ttatgaaagg gtaatgaaat attttaaaaa 540  
 aattatgtaa accctgtaat ctagtaatct gtacaataat aattttgttt caactaagag 600  
 gatgttggca aaagtataat taaacttgtg atcttcgtac aataattatg cttcacgcac 660  
 tcaactagtc acatctttcc aggcaaaatt tacttttcta tgaatatgag aagttccatc 720  
 tatggaaata acggattatt tatctaattt tcaaatctta tatatatagt ctcgagtggg 780  
 acaaaaatag aactaatttg aacaaatcaa agtctaagaa aataatacat gcttttagcag 840  
 caaaaataag aatggtacta tacttaatcc tcatcatagt cttcaaccct gcatatagca 900  
 cacttaacat tttatattca aatatacttt aatttagtca tgataataca actcacctac 960  
 tccattatag ccgataatac aactcaccta gctactccat tatagtccaa caatatcaaa 1020  
 tgaataaaat agtaatggtg acttaaaggg ctgaatccaa catatattct gacatttaaa 1080  
 aatgctaacg tacggttaga ttagtataat gaaataaagt taatcattct ctatatttga 1140  
 tgatggtaat tagtatcatg gtaagggtgtt ttatcgtggc agcatgagt catgacaaac 1200  
 gcatatatta ttattaaaac aaaatagtac tccaatcata ataaattatc ttatattata 1260  
 ttgccacaaa ttaaaaattc aaattagaac aaattaaatc tcagtttgc tttattatatt 1320  
 attatcaaca ataataattt aatactgac gaagaacttt ccctttcaag ttctctattt 1380  
 aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttcat 1440  
 acttcctttg ctgtgataat catcatc 1467

<210> 10

<211> 1934  
 <212> DNA  
 <213> Ipomoea batatas

<220>  
 <221> promoter  
 <222> (1)..(1934)  
 <223> -1934 deletion promoter

<400> 10  
 ttgccatctc accacttcgt cttaaacaat ctaggatatt cttagatatt cttcatactc 60  
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 aatatcatct ctacttaaac tagagagatt tccaactctc aattaatcac caaaggtaac 180  
 tctccaaata tccaaatgga aggtttcaac ttccaaacta ataccaaacc aaccggacta 240  
 atcataatca tattcataat cataaattgt ttctaactgc ccctgtccag aaattacagt 300  
 tttgcgcagt ccgaaagatt gagccggtaa caatagttcc cgaactcttt ttactttgaa 360  
 atttttatgg tagaacccta acttatagta cttgatatcc ataaaaagtt ttgggtcacct 420  
 aggttcacga attaacacag aaaattacat ctttgccctt ggcagtgggc tgtccggaat 480  
 tctgtctctc tggaccagtt ttggcaaaca attttgaaac cacacttata ctactccaaa 540  
 aattatgaaa tttttatggt agcttctaca cttatagaac tacatgtata aaaaatattg 600  
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 taatgataaa gtataacttt tgtaaaaaat ttgatttttt tttttgatga attcatatac 840  
 tccaaagatt ttctcatatt aattaaattt ctatcctcat gttgaacca ttaatcgaat 900  
 aattgacata ttagataaac ttagccatca tatgacattt gatcatgatt gatgatTTTT 960  
 aaaaaataaa aacaaaatta tgaaagggtg atgaaatatt ttaaaaaaat tatgtaaacc 1020  
 ctgtaatcta gtaatctgta caataataat tttgtttcaa ctaagaggat gttggcaaaa 1080  
 gtataattaa acttgtgatc ttctgtacaat aattatgctt cacgcactca actagtcaca 1140  
 tctttccagg caaaatttac ttttctatga atatgagaag ttccatctat ggaaataacg 1200  
 gattatTTTat ctaattttca aattctatat atatagtctc gagtggaaaca aaaatagaac 1260  
 taatttgaac aaatcaaagt ctaagaaaat aatacatgct ttagcagcaa aaataagaat 1320  
 ggtactatac ttaatcctca tcatagtctt caaccctgca tatagcacac ttaacatttt 1380  
 atattcaaat atactttaat ttagtcatga taatacaact cacctactcc attatagccg 1440

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ataatacaac tcacctagct actccattat agtccaacaa tatcaaatga ataaaatagt 1500
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ggtttagatta gtataatgaa ataaagttaa tcattctcta tatttgatga tggtaattag 1620
tatcatggta aggtgtttta tcgtggcagc atgagtgcac gacaaacgca tatattatta 1680
ttaaacaaca atagtactcc aatcataatg aattatctta tattatattg ccaacaatta 1740
aaaattcaaa ttagaacaaa ttaaactctca gtttgcttta ttatattatt atcaacaata 1800
ataatttaac actgatcgaa gaactttccc tttcaagttc tctatttaag gaagcctgag 1860
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<210> 11
<211> 2433
<212> DNA
<213> Ipomoea batatas

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<221> promoter
<222> (1)..(2433)
<223> -2433 promoter

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acttcaagct ctttatcccg taggctgcaa caacataacg acataacgac cactgggcaa 180
gggcatttac agccaccctg gggatcaatca aggtcctcct cactcacttt agaaactaag 240
ggtttgaaaa catgatcttt ccttcagttt ttcttacaac aaatcattca ctttggacac 300
atctcacaat tgagtccaat acttaaaccg gctacttcat tagccctga aggattttta 360
aaaaaacttt cactgcccgc aggtcttcca aacatctttt cctcattatc aagtgaggca 420
ttttcctcaa aagtaagggt ttgacaacct ttatatcaaa atagcatacg tttttcaacg 480
taagtttcat aacatttact tgccatctca ccacttcgtc ttaaacaatc taggatattc 540
ttagatattc ttcatactca agtctcacac ttgaaatcaa tcaagactct tacactaaca 600
attcctcaat atacctcata atatcatctc tacttaaaact agagagattt ccaactctca 660
attaatcacc aaaggtaact ctccaaatat ccaaaggaa gggttcaact tccaaactaa 720
taccaaacca accggactaa tcataatcat attcataatc ataaattggt tctaactgcc 780

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cctgtccaga aattacagtt ttgcgagtc cgaaagattg agccggtaac aatagttccc 840
gaactctttt tcaacttgaaa tttttatggt agaaccctaa cttatagtac ttgatatcca 900
taaaaagttt tggtcaccta ggttcacgaa ttaacacaga aaattacatc tttgcccttg 960
gcagtgggct gtccggaatt ctgtctctct ggaccagttt tggcaaacaa ttttgaaacc 1020
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ttgaaccocat taatcgaata attgacatat tagataaact tagccatcat atgacatttg 1440
atcatgattg atgattttta aaaaataaaa acaaaattat gaaagggtaa tgaaatatat 1500
taaaaaaatt atgtaaaccc tgtaatctag taatctgtac aataataatt ttgtttcaac 1560
taagaggatg ttggcaaaag tataattaaa cttgtgatct tcgtacaata attatgcttc 1620
acgcactcaa ctagtcacat ctttccaggc aaaatttact tttctatgaa tatgagaagt 1680
tccatctatg gaaataacgg attatattatc taattttcaa attctatata tatagtctcg 1740
agtggaacaa aatagaact aatttgaaca aatcaaagtc taagaaaata atacatgctt 1800
tagcagcaaa aataagaatg gtactatact taatcctcat catagtcttc aacctgcat 1860
atagcacact taacatttta tattcaaata tactttaatt tagtcatgat aatacaactc 1920
acctactcca ttatagccga taatacaact cacctagcta ctccattata gtccaacaat 1980
atcaaagaa taaaatagta atggtgactt aaagggtga atccaacata tattctgaca 2040
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atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcag 2160
acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatottat 2220
attatatgtc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat 2280
tatattatta tcaacaataa taatttaata ctgatogaag aactttccct ttcaagttct 2340
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cttcatactt cctttgctgt gataatcatc atc 2433

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&lt;210&gt; 12

<211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> GSP1 promoter

<400> 12  
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<210> 13  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> AP1 promoter

<400> 13  
 gtaatacgac tcactatagg gc 22

<210> 14  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> GSP2 promoter

<400> 14  
 cacagcaaag gaagtatgaa gaagc 25

<210> 15  
 <211> 19  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> AP2 promoter

<400> 15  
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<210> 16  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> exon promoter

<400> 16  
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<210> 17  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> intron promoter

<400> 17  
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<210> 18  
 <211> 35  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward promoter for -2433 deletion promoter

<400> 18  
 gccaaagcttg gtcctcatgg agtattctca taact 35

<210> 19  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -1934 deletion promoter

<400> 19  
 gccaaagcttt tgccatctca ccacttcgctc tta 33

<210> 20  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -1467 deletion promoter

<400> 20  
 gccaaagcttg gctgtccgga attctgtctc t 31

<210> 21  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -1199 deletion promoter

<400> 21  
 gccaaagctta tgcaggggtga aagtaagatt gaa 33

<210> 22  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -818 deletion promoter

<400> 22  
 gccaaagcttg cttcacgcac tcaact 26

<210> 23  
 <211> 33  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -433 deletion promoter

<400> 23  
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<210> 24  
 <211> 34  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> reverse primer for -2433, 1934, 1467, 1199, 818, 433, 366, 306,  
 177 and 110 deletion promoter

<400> 24  
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<210> 25  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -366 deletion promoter

<400> 25  
 ttctctgcaga tagtataatg aaataaagtt a 31

<210> 26  
 <211> 26  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -306 deletion promoter

<400> 26  
 tttctgcagt aaggtgtttt atcgtg 26

<210> 27  
 <211> 25  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> forward primer for -177 deletion promoter

<400> 27  
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<223> reverse primer for NPTII

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21